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(71) Applicant: **KAWASAKI STEEL CORP**

(72) Inventor: **OWADA SATORU
KURISU TAKAO**

(54) THERMAL SPRAYING MATERIAL

(57) Abstract:

PURPOSE: To form a sprayed deposit having a wide range of compositions at a low cost by forming the desired composition of thermally sprayed layer by regulating the compositions and thicknesses of respective metallic layers of a linear thermal spraying material having multilayered structure.

CONSTITUTION: Metals constituting a thermal spraying material are determined according to the purpose of thermal spraying, and respective compositions, purities, etc., of the metals constituting an alloy thermal spraying layer are determined while taking the characteristics of the desired thermal spraying layer into account. Further, the surface area of the thermal spraying material affecting the consumption of heat source for thermal spraying is determined according to the wire diameter of linear metallic thermal spraying material, and the capacity and capability of a thermal spraying device are determined while taking the relationship with conveyance speed of the thermal spraying mate-

rial into account. Moreover, as to the surface characteristics of the thermal spraying material, the surface is made as clean as possible. By using the metallic thermal spraying material of linear shape as mentioned above, the thermal spraying material having a composition hitherto impossible to use as thermal spraying material can be manufactured at a lower cost.

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